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Figure 16: Multiple Sequence Alignments of Mil.1, Mil.2 and Rpi-blb2 nucleic acids

CLUSTAL W (1.82) Multiple Sequence Alignments

Sequence format is Pearson

3768 bp 1: Mil.1 Sequence

Sequence 2: Mil.2

3774 bp 3804 bp Sequence 3: Rpi-blb2

Start of Pairwise alignments

Aligning..

95 Sequences (1:2) Aligned. Score: 89 Score: Sequences (1:3) Aligned. Sequences (2:3) Aligned. Score:

[/ebi/extserv/clustalw-work/interactive/clustalwfile created: Guide tree

20040503-14435620.dnd]

Start of Multiple Alignment

There are 2 groups

Aligning...

Score: 68908 2 8 Group 1: Sequences:

Score: 65855 Group 2: Sequences:

Alignment Score 66872

[/ebi/extserv/clustalw-work/interactive/clustalwcreated CLUSTAL-Alignment file

20040503-14435620.aln]

CLUSTAL W (1.82) multiple sequence alignment

ATGGAAAAACGAAAAGATAATGAAGAAGCAAACAACTCATTGGTGCTATTTTCTGCTCTT Mil.1

A.TGGAAAAACGAAAAGATTTGAAGAAGCAAACAACTCATTGGTGTTATTTTCTGCTCTT Mi1.2

ATGGAAAAACGAAAAGATAATGAAGAAGCAAACAACTCATTGGAGTCATTTTCTGCTCTT Rpi-blb2

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Mil.1	AGCAAGGACi	ATTGCCGATGTTCTG	GTTTTCCTAGAGA	AGCAAGGACATTGCCGATGTTCTGGTTTTCCTAGAGAATGAGGAAAATCAA 111	
Mi1.2	AGCAAGGACA	ATTGCCAATGTTCTA	ATTTCCTAGAGA	AGCAAGGACATTGCCAATGTTCTAATTTTCCTAGAGAATGAGGAAAATCAA 111	
Rpi-blb2	CGCAAGGATC	SCTGCCAATGTTCTG	GATTTCCTAGAGAGATT	CGCAAGGATGCTGCCAATGTTCTGGATTTCCTAGAGAGTTAAAGAATGAAGAAGATCAA 120	
	*****	******	*******	**** *** ***	

********* ***** **** *** ** Rpi-blb2

Mi1.2

Mi1.1

Mil.1

240 231 **TATGTTCAGCTTTCTTATTCCGATTTTTGAGCAGTTTTGAAGATATAATGACTAGAAATAGA** TATGTCCAGCTTTCTTATTCCGATTTGGAGAGAGTTTGAAGATATAATGACTAGAAAAAA *** ********************* Rpi-blb2 Mi1.2

300 <u> PAGAGGTTGAGAATCTGCTTCAACCAATTTTTGGATGATGATGGCAAAGACGTCGGGTGT</u> CAAGAGGTTGAGAATCTGCTTCAATCACTTTTGGATGATGATG--CAAGAGGTTGAGAATCTGCTTCAACCACTTTTGGATGATGATG-Rpi-blb2 Mil.2 Mi1.1

360 ----TCTTTACTAGCCTCACCAGTAATATGGATGACTGTATCAGCTTGTATCATCGT -----TCCTTACTAGCCTCACCAGTAATATGGATGACTGTATCAGCTTGTATCATCGT AAATATGTCCTTACTAGCCTCGCCGGTAATATGGATGACTGTATAAGCTTGTATCATCGT ************ Rpi-blb2 Mi1.2 Mil.1

417 387 387 TCTTATAAATCAGATGCCATCATGATGGATGAGCAATTGGACTTCCTCCTCTTGAATCTC | CTTATAAATCAGATGCCATCATGATGGATGAGCAATTGGACTTCCTCCTCTTGAATCTG TCT---AAATCAGATGCCACCATGATGGATGAGCAATTGGGCTTCCTCCTTGAATCTC ******** ******* **** ************* *** Rpi-blb2

Mil.2

Mil.1

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Mi1.1	TATCATCTATCCAAGCATCACGCTGAAAAGATATTTCCTGGAGTGACTCAATATGAAGTT 447
Mi1.2	TATCATCTATCCAAGCATCACGCTGAAAAGATATTTCCTGGAGTGACTCAATATGAAGTT 447
Rpi-blb2	TCTCATCTATCCAAGCATCGTGCTGAAAAGATGTTTCCTGGAGTGACTCAATATGAGGTT 477

CITCAGAATATATGTGGCAACATAAGAGATTTCCATGGGTTGATAGTGAATGGTTGCATT 507	CTTCAGAATGTATGTGCCAACATAAGAGATTTCCATGGGTTGATACTGAATGGTTGCATT 507	CTTCAGAATGTATGTGCCAACATAAGAGATTTCCATGGATTGATAGTGAATTGTTGCATT 537	****** **** ***** ******
Mil.1	Mi1.2	Rpi-blb2	

AAGCATGAGATGGTTGAGAATGTCTTRCCTCTGTTTCAACTCATGGCTGACAGAGTAGGA 567	AAGCATGAGATGGTTGAGAATGTCTTACCTCTGTTTCAACTCATGGCTGAAAGAGTAGGA 567	AAGCATGAGATGGTTGAGAATGTCTTTTTTTTTTCAACTGATGGCTGAGAGAGTAGGA 597	******* ****** ****** ******** ********
Mil.1	Mi1.2	Rpi-blb2	

Mil.1	CACTICCITIGGGAIGAICAGACIGAIGAAGACICICGACICICCGAGCIAGAIGAGGAI 627	
Mi1.2	CACTICCTITGGGAGGATCAGACTGATGAAGACTCTCGGCTCTCCGAGCTAGATGAGGAT 627	
Rpi-blb2	CGCTTCCTTTGGGAGGATCAGGCTGATGAAGACTCTCAACTCTCCGAGCTAGATGAGGAT 657	
	* ************ ****** *******	

Mil.1 CCGGTTGAACTGGAGGTTATACACATATGTTATACAAACTTGAAAGCTTCAACTTCAGCT 747 Mil.2 Rpi-blb2 CCAACTGAATTGGAGGTTATGCACATATGTTATAAAAACTTTGAAAGCTTCAACTTCAGCA 747

807	
3GACTCTTCATTAAGCAGCTTCTAGAAACCTCTCCAGATATTCTGAGGGAATAT 80	
GAAGTT	
Mil.1	

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SAAGTTGGACGCTTCATTAAGAAGCTCCTGGAAACCTCACCGGATATTCTCAGAGAATAT GAAATTGGACGCTTCATTAAGAAGCTCCTGGAAACCTCCGGACATTCTCAGAGAATAT Rpi-blb2 Mi1.2

867 867 ATCATTCAACTACAAGAGCATATGTTAACTGTTATTCCCCCTAGCACTTTAGGGGCTCGA CTAATTCCTCTGCAAGAGCACATGGTAACTGTTATTACCCCTAGCACTTCAGGGGCTCGA CTGATTCATCTACAAGAGCATATGATAACTGTTATTACCCCTAACACTTCAGGGGCTCGA ******* *** ***** ***** ****** ****** *** *** Rpi-blb2 Mi1.2 Mil.1

957 **************** Rpi-blb2

Mi1.1 Mi1.2

1017 TTTATTCATCATGACAAACTTTTTGATCTTTGGATCGTGTCGGAGTACTTACCAGGGAG TTATTCATCATGACAAACTTTTTGATCTTGGCTCATGTTGGAACACTTACCAGGGAG TTTATTCATCATGACAAACTTTTTGATCTTTGGCTCGTGTTGTAGCACTTACCAGGGAG *********** Rpi-blb2 Mi1.2 Mil.1

GTATCAACTCTTGTACGTGACTTGGAAGGAACCAAGGAATAAAGGGGTAATAACCAA GTATCGACTCTTGTACGTGACTTGGAAGAGAAATTAAGGAATAAAGGGGGTAATAACCAA GTATCAACTCTTGTACGCGACTTGGAAGAGAAATTAAGGATTAAAGAGAGTACTGACGAA Rpi-blb2 Mi1.2

Mil.1

1104 ACAAATTGTGCAACCCTAGACTTGCTGGAAAATATTGAACTCCTCAAGAAGATCTCAAA **ACAAATTGTGCAACCCTAAAGTTTCTGGAAAATATTGAACTCCTTAAGGAAGATCTCAAA** Rpi-blb2

Mil.2

Mil.1

CATGTTTATCTGAAAGCCCTGGATTCATCTCAATGTTGCTTCCCCATGAGTGATGGACCA 1164 CATGITIAICIGAAAGCCCCCAAATICAICICAATGIIGCIICCCCAIGAGIGAIGGACCA Mi1.2 Mil.1

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1197 CATGITIAICIGAAAGICCCGGAIICAICICAAIAIIGCIIICCCCAIGAGIGAIGGACCI ******************* ** ********** Rpi-blb2

1224 1257 CTCTTCATGCATCTTCTACACATACACTTAAATGATTTGTTAGATTCTAATGCTTATTCA CTCTTCATGCATCTTCTACACATGCACTTAAATGATTTGCTAGATTCTAATGCTTATTCA CTCTTCATGCATCTGCTACAGAGACACTTAGATGATTTGCTGGATTCCAATGCTTATTCA Rpi-blb2 Mi1.2 Mil.1

1284 1317 ATTGCTTTGATAAAGGAAGAAATCGAGCTGGTGAAGCAAGACCTGAAATTCATAAGATCA ATTTCTTTGATAAAGGAAGAAATCGAGTTGGTGAGTCAAGAACTGGAATTCATAAGATCA ATTGCTTTGATAAAGGAACAAATTGGGCTGGTGAAAGAAGACTTGGAATTCATAAGATCT ****** ***** * * * *** ******** Rpi-blb2

Mi1.2

Mil.1

1344 1341 TTCTTTGGGATGCTG----AGCAAGGATTGTATAAAGATCTCTGGGCACGTGTTCTAGAT TTCTTTGGGGATGCTGCTGAGCAAGGATTGTATAAAGATATCTGGGCACGTGTTCTAGAT TTTTCGCGAATATTG----AGCAAGGATTGTATAAAGATCTCTGGGAACGTGTTCTAGAT *********** * ** * * ** ** Rpi-blb2 Mi1.1

Mi1.2

1404 1434 1401 GTGGCTTATGAGGCAAAAGATGTCATAGATTCAATTATTGTTCGAGATAATGGTCTCTTA GTGGCTTATGAGGCAAAAGATGTCATAGATTCAATTATTGTTCGAGATAATGGTCTCTTA GTGGCATATGAGGCAAAAGATGTCATAGATTCAATTATTGTTCGAGATAATGGTCTCTTA ********************* Rpi-blb2 Mi1.2 Mil.1

1464 1494 CATCTTATTTTCTCACTTCCCATTACCATAAAGAAGATCAAACTTATCAAAGAAGAGATC CATCTTATTTTCTCACTTCCCATTACCATAAAGAAGATCAAACTTATCAAAGAAGAGATC CATCTTATTTTCTCACTTCCCATTACCAGAAAGAAGATGATGCTTATCAAAGAAGAGGTC ** ********** * ******* *************** Rpi-blb2 Mi1.2

Mi1.1

1521 TCTGCTTTAGATGAGAACATTCCCAAGGACAGAGGTCTAATCGTTGTGAACTCTCCCAAG TCTGCTTTAGATGAGAACATTCCCAAGGACAGAGGTCTAATCGTTGTGAACTCTCCCAAG **ICTGATTTACATGAGAACATTTCCAAGAACAGAGGTCTCATCGTTGTGAACTCTCCCAAG** Rpi-blb2 Mi1.1 Mi1.2

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1644 1674 1764 1614 1641 1701 1854 1704 1761 1824 1881 1821 ACAAACTTGATACTTAGAAAGCTCACCAGTGGATCGGCAGATCTAGATGTCATTTCGATC ACAAACTTGATACTTAGAAAGCTCACCAGTGGACCCGCAGATTTAGATGTCATTTCGATC ACTGGTATGCCGGGTTCAGGTAAAACTACTTTGGCATACAAAGTATACAATGATAAGTCA ACCGGTATGCCGGGTTCAGGTAAAACTACTTTGGCATACAAAGTATACAATGATAAGTCA GTTTCTAGCCGTTTCGACCTTCGTGCATGGTGCACGGTCGACCAAGGATGTGATGAGAAG GTTTCTAGACATTTTGACCTTCGTGCATGGTGCACGGTCGATCAAGGATATGACGACAAG <u>AAACCAGTTGAGAGAAGTCATTGACAACTGATAAAATAACTGTAGGTTTTTGAGGAGGAA</u> **AAACCAGTTGAGAAAGTCATTGACAACTGATAAAATAATTGTAGGTTTTTGAGGAGGAG** AAACCAGTTGAGAGCAAGTCATTGACAACTGATAAAATAATTGTAGGTTTTTGGTGAGGAG ACAAACTTGATACTTAGAAAGCTCACCAGTGGACCGGCAGATCTAGATGTCATTTCGATC ATTGGTATGCCGGGTTTAGGTAAAACTACTTTGGCGTACAAAGTATACAATGATAAATCA GTTTCTAGCCATTTCGACCTTCGTGCATGGTGCACGGTCGACCAAGTATATGACGAGAAG ATTGATGTTGCTGATAAATTACGGAAACAACTGTTTGGAAAGAGGGTATCTTATTGTCTTA **ATTGATGTTGCTGATAAATTGCGGAAACAACTGTTTTGGAAAGAGGGTATCTTATTGTCTTA** ATTGATGTTGCTGATAAACTACGGAAACAATTGTTTGGAAAGAGGGTATCTTATTGTCTTA 女女女女女女女女女女女女女女女女 女女女女女女女女女女 ************** ***** ******** ****** **************** Rpi-blb2 Rpi-blb2 Rpi-blb2 Rpi-blb2 Rpi-blb2 Rpi-blb2 Mi1.2 Mi1.2 Mi1.2 Mi1.1 Mi1.2 Mi1.2 Mi1.1 Mi1.1 Mi1.2 Mi1.1 Mi1.1 Mil.1

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Mi1.1	GATGACGTGTGGGATACTACTACATGGGATGAGTTAACAAGACCTTTTCCTGAATCTAAG 1941	
Mi1.2	GATGATGTGGGGATACTACATTGGATGAGTTGACAAGACCTTTTCCTGAAGCTAAG 1944	
Rpi-blb2	GATGACGTGTGGGATACTAATACATGGGATGAGCTAACAAGACCTTTTCCTGATGGTATG 1974	

Mi1.1	AAAGGAAGTAGGATTATTTTGACAACTCGGGAAAAGGAAGTGGCTTTTGCATGGAAAGCTG 2001
Mi1.2	AAAGGAAGTAGGATTATTTTGACAACTCGAGAAAAGGAAGTGGCTTTTGCATGGAAAGCTG 2004
Rpi-blb2	AAAGGAAGTAGAATTATTTTGACAACTCGAGAAAAGAAA
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Mi1.1	AACACTGATCCTCTTGACCTTCGATTGCTAAGACCAGATGAAAGTTGGGAACTATTAGAG 2061
Mi1.2	AACACTGATCCTCTTGACCTTCGATTGCTAAGACCAGATGAAAGTTGGGAACTTTTAGAT 2064
Rpi-blb2	TACACTGATCCTCTTAACCTTCGATTGCTAAGATCAGAAGAAAGTTGGGAGTTATTAGAG 2094

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т.тты	AAAAGGGCA111GGGAA1GAGAG11GCCC1GA1GAAC1A11AGA1G1CGG1AAAGAAA1A Z1Z1	T777
Mil.2	AAAAGGACATTTGGTAATGAGAGTTGCCCTGATGAACTATTAGATGTCGGTAAAGAAATA 2124	2124
Rpi-blb2	AAAAGGGCATTTGGAAACGAGAGTTGCCCTGATGAACTATTGGATGTTGGTAAAGAAATA 2154	2154
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Mi1.1	GCCGAAAATTGTAAAGGGCTTCCTTTGGTGGCTGATCTGATTGCTGGAGTCATTGCTGGG 2181
Mil.2	GCCGAAAATTGTAAAGGGCTTCCTTTGGTGGCTGATCTGATTGCTGGAGTCATTGCTGGG 2184
Rpi-blb2	GCCGAAAATTGTAAAGGGCTTCCTTTGGTGGTGGATCTGATTGCTGGAATCATTGCTGGG 2214

3 2241	3 2244	3 2274	ىد
TTTATTTE	TTTATTTG	TTTATTTG	*****
GTTC	GTTC	ATTC	* * *
GTTTGA	GTTTGA	ATTTGC	***
AGTA	AGTA	AATA	* *
CAA	CAA	GTA	*
AGGGAAAAGAAAAGGAGTGTGTGGCTTGAAGTTCAAAGTAGTTTGAGTTCTTTTATTTTG 2241	AGGGAAAAGAAAGGAGTGTGTGGCTTGAAGTTCAAAGTTTGAGTTCTTTTTTTT	AGGGAAAAGAAAAAGAGTGTGTGGCTTGAAGTTGTAAATAATTTGCATTCCTTTATTTTG 2274	水水水水水水水 大水水 水水水水 水水 水水 水水水水水水水水水水水水水水水
Mi1.1	Mi1.2	Rpi-blb2	

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Mil.1	AACAGTGAAGTGGAAGTGAAAGTTATAGAATTAAGTTATGACCATTTACCACATCAC 2301	
Mil.2	AACAGTGAAGTGGAAGTGAAAGTTATAGAATTAAGTTATGACCATTTACCACATCAC 2304	
Rpi-blb2	AAGAATGAAGTGGAAGTGAAAGTTATAGAAATAAGTTATGACCACTTACCTGATCAC 2334	
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2364 2394 2361 CTCAAGCCATGCTTGCTGTATTTTGCAAGTTTTTCCGAAGGACACTTCATTGACAATCTAT CTCAAGCCATGCTTGCTTTGCAAGTTGGCCGAAGGACACTCCTTTGACAATCTAT CTGAAGCCATGCTTGCTGTACTTTGCAAGTGCGCCGAAGGACTGGGTAACGACAATCCAT ** ****** ******* ******* * ********** Rpi-blb2

Mi1.2

Mil.1

2424 2454 2421 TTGTTTACTGTTTATTTGGGTGCTGAAGGATTTGTGGAAAAGACGGAGATGAAGGGTATA GAGTTGAATGTTTATTTCGGTGCTGAAGGATTTTGTGGGAAAGACGGAGATGAACAGTATG SAGTIGAAACTIATITIGGGGITITIGAAGGATITIGIGGAAAAGACAGAIAIGAAGAGICIG ***** ** ***** ********** Rpi-blb2 Mi1.1 Mi1.2

2484 2514 2481 SAAGAAGTGGTGAAGATTTATATGGATGATTTTAATTTTACAGTAGCTTGGTAATTTTGTTTC GAAGAAGTGGTGAAGATTTATATGGATGATTTTAATTTTCCAGTAGCTTGGTAATTTGTTTC SAAGAAGTGGTGAAAATTTTATTTGGATGATTTTAATTTTCCAGTAGCTTGGTAATTTTGTTTC ******************** Rpi-blb2 Mil.1 Mi1.2

2544 2574 2541 AATGAGATAGGTGATATACTGAATTTCCAAATTCATGATCTTGTGCATGACTTTTGTTTTG ******* ************** * ** ******** Rpi-blb2 Mi1.2 Mil.1

2604 2634 2601 ATAAAAGCAAGAAAGGAAAATTTGTTTGATCAGATAAGATCAAGTGCTCCATCAGATTTG ATAAAAGCAAGAAAGGAAAATTTGTTTGATCGGATAAGATCAAGTGCTCCATCAGATTTG ATAAAAGCAAGAAAGGAAAAGTTGTGTGATCGGATAAGTTCAAGTGCTCCATCAGATTTG Rpi-blb2 Mi1.1 Mil.2

TTGCCTCGTCAAATTACCATTGATTGTGATGAGGAGGAG---CACTTTGGGCTTAATTTT 2658 Mi1.1

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Mi1.2	TTGCCTCGTCAAATTACCATTGATTATGATGAGGAGGAGGAGCACTTTGGGCCTTAATTTT 2664
Rpi-blb2	TTGCCACGTCAAATTAGCATTGATTATGATGATGAAGAGCACTTTGGGCTTAATTTT 2694
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Mil.1	GTCATGTTCGATTCAAATAAGAAAAGGCATTCTGGTAAACACCTCTATTCTTTGAGGATA 2718
Mi1.2	GTCATGTTCGATTCAAATAAGAAAAGGCATTCTGGTAAACACCTCTATTCTTTGAGGATA 2724
Rpi-blb2	GTCCTGTTCGGTTCAAATAAGAAAAGGCATTCCGGTAAACACCTCTATTCTTTGACCATA 2754
	大大子 大大大大大 大大大大大大大大大大大大大大大大大大

Mil.1	ATTGGAGACCAGCTGGATGACAGTGTTTCTGATGCATTTCACCTAAGACACTTGAGGCTT 2778	œ
Mi1.2	AATGGAGACCAGCTGGATGACAGTGTTTCTGATGCATTTCACCTAAGACACTTGAGGCTT 2784	4
Rpi-blb2	AATGGAGATGAGCTGGACGACCATCTTTCTGATACATTTCATCTAAGACACTTGAGGCTT 2814	4
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Mi1.1	CTTAGAGTGTTGGACCTGCATACGTCTTTTATCATGGTGAAAGATTCTTTGCTGAATGAA
Mi1.2	ATTAGAGTGTTGGACCTGGAACCCTCTTTAATCATGGTGAATGATTCTTTGCTGAATGAA
Rpi-blb2	CTTAGAACCTTGCACCTGGAATCCTCTTTTATCATGGTTAAAGATTCTTTGCTGAATGAA

Mil.1	ATATGCATGTTGAATCATTTGAGGTACTTATCCATTGACACACAAGTTAAATATCTGCCT 2898
Mi1.2	ATATGCATGTTGAATCATTTGAGGTACTTAAGAATTCGGACACAAGTTAAATATCTGCCT 2904
Rpi-blb2	ATATGCATGTTGAATCATTTGAGGTACTTAAGCATTGGGACAGAAGTTAAATCTCTGCCT 2934
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Mil.1	TIGICITITCICAAACCICIGGAAICIAGAAAGCCIGITITGIGICIACCAACAGAICAAIC 2958	CTGTTTGTGT	CTACCAACA	GATCAATC	2958
Mil.2	TTCTCTTTTCTCAAACCTCTGGAATCTAGAAAGTCTGTTTGTGTCTAACAAAGGATCAATC 2964	CTGTTTGTGT	CTAACAAAC	GATCAATC	2964
Rpi-blb2	TIGICITICICAAACCICIGGAAICIAGAAAICITGITIGIGGATAACAAAGAAICAACC 2994	TTGTTTGTGG	ATAACAAAC	SAATCAACC	2994
	********	*** ** ****	*** **	* ****	

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Rpi-blb2	TTGATACTATTACCGAGAATTTGGGATCTTGTAAAGTTGCAAGTGCTGTTCACGACTGCT	3054
Mil.1 Mil.2 Rpi-blb2	TGTTCTTTCTTTGATATGGATGCAGATGAATCAATATTGATAGCAGAGGACACAAAGTTA 3 TGTTCTTTCTTTGATATGGATGCAGATGAATCAATATTGATAGCAAAGGACACAAAGTTA 3 TGTTCTTTCTTTGATATGGATGCAGATGAATCAATACTGATAGCAGAGGACACAAAGTTA 3 ************************************	3078 3084 3114
Mil.1 Mil.2 Rpi-blb2	GAGAACTTGAGAATATTAACGGAACTGTTGATTTCCTATTCGAAAGATACAAAGATATT 3 GAGAACTTGAGAATATTAGGGGAACTGTTGATTTCCTATTCGAAAGATACAATGAATATT 3 GAGAACTTGACAGCATTAGGGGAACTCGTGCTTTCCTATTGGAAAGATACAGAGATATT 3 ***********************************	3138 3144 3174
Mil.1 Mil.2 Rpi-blb2	TTCAAAAGGTTTCCCAATCTTCAGTTGCTTTCATTTGAACTCAAGGAGTCATGGGATTAT TTCAAAAAGGTTTCCCAATCTTCAGGTGCTTCAGTTTTGAACTCAAGGAGTCATGGGATTAT TTCAAAAAGGCTTCCCCAATCTTCAAGTGCTTCATTTCAAACTCAAGGAGTCATGGGATTAT ****************************	3198 3204 3234
Mil.1 Mil.2 Rpi-blb2	TCAACAGAGCAACATTGGTTCTCGGAATTTGGATTTCCTAACTGAACTAGAAACACTCTCT 3 TCAACAGAGCAACATTGGTTCCCGAAATTGGATTTGCCTAACTGAACTAGAAACACTCTGT 3 TCAACAGAGCAATATTGGTTCCCGAAATTGGATTTCCTAACTGAACTAGAAAAACTCACT 3 ************************************	3258 3264 3294
Mil.1 Mil.2 Rpi-blb2	GTAGGTTTTAAAAGTTCAAACACAAACGATAGTGGGTCCTCTGTAGCGACAAATCGGCCG 3 GTAGGTTTTAAAAAGTTCAAACACAAACCACTGTGGGTCCTCTGTTGTGACAAATCGGCCG 3 GTAGATTTTGAAAGATCAAACACAAATGACAGTGGGTCCTCTGCAGCCATAAATCGGCCA 3 **** **** **** *********************	3318 3324 3354
Mi1.1 Mi1.2 Rpi-blb2	TGGGATTTTCACTTCCCTTCAAATTTGAAAATACTGTGGTTGCGTGAATTTCCGCTGACA 3 TGGGATTTTCACTTCCCTTCAAATTTGAAAGAACTGTTGTTGTATGACTTTTCCTCTGACA 3 TGGGATTTTCACTTTCCTTCGAGTTTGAAAAGATTGCAATTGCATGAATTTCCTCTGACA 3	3378 3384 3414

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Mil.1 Mil.2 Rpi-blb2	TCCGATTCACTATCAACAATAGCGAGACTGCCCAACCTTGAAGAGTTGTCCCTTTATCAT 3. TCCGATTCACTATCAACAATAGCGAGACTGCCCAACCTTGAAAATTTGTCCCTTTATGAT 3. TCCGATTCACTATCAACAATAGCGAGACTGCTGAACCTTGAAGAGTTGTACCTTTATCGT 3. ***********************************	3438 3444 3474
Mi1.1 Mi1.2 Rpi-blb2	ACAATCATCCATGGAGAAGAATGGAACATGGGGGGGGGAGGAAGACCCTTTGAGAATCTCAAA 34 ACAATCATCCAGGGAGAAGAATGGAACATGGGGGGGGGG	3498 3504 3534
Mil.1 Mil.2 Rpi-blb2	TTTTTGAACTTCAATCAAGTTAGTATTTCCAAGTGGGAGGTTGGAGGAAGTCCTTCCCC 39 TTTTTGAACTTGCGTCTACTGACTCTTTCCAAGTGGGAGGTTGGAGGAAGGA	3558 3564 3594
Mil.1 Mil.2 Rpi-blb2	AATCTTGAGAAATTAAAACTGCGGGGATGTCATAAGCTAGAGGAGATTCCACCTAGTTTT 36 AATCTTGAGAAATTAAAACTGCAGGAATGTGGTAAGCTTGAGGAGATTCCACCTAGTTTT 36 ACGCTTGAGAAATTAGAACTGTCGACTGTCATAATCTTGAGAGATTCCGTCTAGTTTT 36	3618 3624 3654
Mil.1 Mil.2 Rpi-blb2	GGAGATATTTATTCATTGAAATCTATCAAAATTGTAAAGAGTCCTCAACTTGAAGATTCT 36 GGAGATATTTATTCATTGAAATTTATCAAAATTGTAAAGAGTCCTCAACTTGAAGATTCT 36 GGGGATATTTATTCCTTGAAAATTATCGAACTTGTAAGGAGCCCTCAACTTGAAAATTCC 37 ** *********************************	3678 3684 3714
Mil.1 Mil.2 Rpi-blb2	GCTCTCAAAATTAAGGAATACGCTGAAGATATGAGGGGGGGG	3738 3744 3774

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Mil.1 GGCCAAAAGAATATCCCCTTATTTAAGTAG 3768 Mil.2 GGCCAGAAGAATATCCCCTTATTTAAGTAG 3774

GGCCAGAAGAATATCCCCTTATTTAAGTAG 3774 GGCCAGAAGGATATCCCGTTATTTAAGTAG 3804

Rpi-blb2
